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PATENTS ONLY

SEP 15 2003

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1. Name of conveying party:

Katsuyoshi Hiraki
Yasutake Furukoshi
Koichi KatagawaMasanori Nishido
Tetsuya Kobayashi

2. Name and address of receiving party(ies)

Name: **FUJITSU DISPLAY TECHNOLOGIES
CORPORATION**Internal Address: 1-1, Kamikodanaka 4-chome,Street Address: Nakahara-ku, Kawasaki-shi,Kanagawa 211-8588 Japan

City: _____ State: _____ ZIP: _____

Additional name(s) & address(es) attached: () Yes (X) No

3. Nature of conveyance:

(X) Assignment () Merger
 () Security Agreement () Change of Name
 () Other _____

Execution Date: June 16, 2003

4. Application number(s) or patent number(s):

If this document is being filed together with a new application, the execution date of the application is:

A. Patent Application No.(s)

10/603,067

B. Patent No.(s)

Additional numbers attached? () Yes (X) No

5. Name and address of party to whom correspondence concerning document should be mailed:

Patrick G. Burns
 Name: Greer, Burns & Crain, Ltd.
 Internal Address: 300 South Wacker Drive
 Suite 2500
 Chicago, Illinois 60606

6. Total number of applications and patents involved:

7. Total fee (37 CFR 3.41) \$ 40.00

(X) Enclosed

(X) Authorized to be charged to deposit account only in the event proper payment is not enclosed.

8. Deposit account number:

07-2069

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9. Statement and signature.

*To the best of my knowledge and belief, the foregoing information is true and correct and any attached copy is a true copy of the original document.*Patrick G. Burns
Name of Person Signing
Signature

September 10, 2003

Date

3

Total number of pages including cover sheet, attachments, and document:

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Washington, D.C. 20231

09/16/2003 AWDNDAF1 00000149 10603067

GREER, BURNS & CRAIN, LTD.
300 South Wacker Drive
Suite 2500
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UTILITY PATENT

ASSIGNMENT

FOR VALUE RECEIVED, the receipt of which is hereby acknowledged, the following inventor or inventors (hereinafter called "ASSIGNOR")

Name: Katsuyoshi HIRAKI
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Name: Tetsuya KOBAYASHI
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Name: Yasutake FURUKOSHI
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Name: Masanori NISHIDO
Address: c/o FUJITSU DISPLAY TECHNOLOGIES
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1-1, Kamikodanaka 4-chome, Nakahara-ku,
Kawasaki-shi, Kanagawa 211-8588 Japan

hereby assigns, transfers and sets over to:

Name: FUJITSU DISPLAY TECHNOLOGIES CORPORATION
Address: 1-1, Kamikodanaka 4-chome, Nakahara-ku, Kawasaki-shi, Kanagawa 211-8588 Japan

(hereinafter called "ASSIGNEE"), the entire worldwide right, title and interest in and to the invention known as:

**DRIVING METHOD AND DRIVE CONTROL CIRCUIT OF LIQUID CRYSTAL DISPLAY DEVICE,
AND LIQUID CRYSTAL DISPLAY DEVICE INCLUDING THE SAME**

for which a United States Patent Application was executed on even date herewith or, if not so executed, was:

- (a) executed on _____; or
- (b) filed on June 24, 2003,
Serial No. 10 /603,067;

and all rights and privileges under any Letters Patent which may be granted thereon, including all rights, if any, to sue for past infringement.

- (1) The ASSIGNOR agrees without charge to said ASSIGNEE but at its expense (a) to execute

(i) all necessary papers to be used in connection with this application and any additional, continuing, or divisional applications, as the ASSIGNEE may deem necessary or expedient, (ii) all papers in connection with any interference or other legal or quasi-legal proceedings relating to this application or any additional, continuing, or divisional application thereof, (b) to cooperate with ASSIGNEE in every way possible in obtaining evidence and going forward in any such proceedings; and (c) to perform all other affirmative acts which may be necessary or desirable to obtain a grant of a valid patent for said invention.

(2) ASSIGNOR hereby authorizes and requests the Commissioner of Patents and Trademarks of the United States to issue any and all Letters Patent that may be granted upon any patent application or any additional, continuing or divisional applications thereof to the ASSIGNEE, its successors and assigns.

(3)ASSIGNOR hereby covenants and warrants that he has full right to convey the entire right, title and interest by this instrument, free of any encumbrances and that no other agreement has been or will be executed in conflict herewith.

(4)ASSIGNOR hereby grants to the law firm of GREER, BURNS & CRAIN, LTD. of Chicago, Illinois, authority and power to insert on this instrument any further identification which may be necessary or desirable for purposes of recordation in the United States Patent and Trademark Office or a Patent Office of any foreign country.

Date Jun. 16. 2003

Signature of inventor

平木 克良

Date Jun. 16. 2003

Signature of inventor

古川 靖武

Date Jun. 16. 2003

Signature of inventor

形川 晃一

Date Jun. 16. 2003

Signature of inventor

西戸 正典

Date Jun. 16. 2003

Signature of inventor

小林 勝也



Declaration and Power of Attorney for Patent Application

特許出願宣言書及び委任状

Japanese Language Declaration

日本語宣言書

私は、以下に記名された発明者として、ここに下記の通り宣言する：

As a below named inventor, I hereby declare that

私の住所、郵便の宛先そして国籍は、私の氏名の後に記載された通りである。

My residence, post office address and citizenship are as stated next to my name.

下記の名称の発明について、特許請求範囲に記載され、且つ特許が求められている発明主題に関して、私は、最初、最先且つ唯一の発明者である（唯一の氏名が記載されている場合）か、或いは最初、最先且つ共同発明者である（複数の氏名が記載されている場合）と信じている。

I believe I am the original, first and sole inventor (if only one name is listed below) or an original, first and joint inventor (if plural names are listed below) of the subject matter which is claimed and for which a patent is sought on the invention entitled

上記発明の明細書はここに添付されているが、下記の欄がチェックされている場合は、この限りでない：

DRIVING METHOD AND DRIVE CONTROL CIRCUIT OF LIQUID CRYSTAL DISPLAY DEVICE, AND LIQUID CRYSTAL DISPLAY DEVICE INCLUDING THE SAME

the specification of which is attached hereto unless the following box is checked:

の日に出願され、
この出願の米国出願番号またはPCT国際出願番号は、
_____ であり、且つ
_____ の日に補正された出願（該当する場合）

was filed on June 24, 2003
as United States Application Number or
PCT International Application Number
10/603,067 and was amended on
_____ (if applicable).

私は、上記の補正書によって補正された、特許請求範囲を含む上記明細書を検討し、且つ内容を理解していることをここに表明する。

I hereby state that I have reviewed and understand the contents of the above identified specification, including the claims, as amended by any amendment referred to above.

私は、連邦規則法典第37編規則1.56に定義されている、特許性について重要な情報を開示する義務があることを認める。

I acknowledge the duty to disclose information which is material to patentability as defined in Title 37, Code of Federal Regulations, Section 1.56.

Japanese Language Declaration (日本語宣言書)

私は、ここに、以下に記載した外国での特許出願または発明者証の出願、或いは米国以外の少なくとも一国を指定している米国法典第35編第365条(a)によるPCT国際出願について、同第119条(a)-(b)項又は第365条(b)項に基づいて優先権を主張するとともに、優先権を主張する本出願の出願日よりも前の出願日を有する外国での特許出願または発明者証の出願、或いはPCT国際出願については、いかなる出願も、下記の枠内をチェックすることにより示した。

Prior Foreign Application(s)
外国での先行出願

2002-187447

(Number)
(番号)

Japan

(Country)
(国名)

2003-065443

(Number)
(番号)

Japan

(Country)
(国名)

私は、ここに、下記のいかなる米国仮特許出願についても、その米国法典第35編第119条(e)項の利益を主張する。

I hereby claim foreign priority under Title 35, United States Code, Section 119(a)-(d) or 365(b) of any foreign application(s) for patent or inventor's certificate, or 365(a) of any PCT International application which designated at least one country other than the United States listed below and have also identified below, by checking the box, any foreign application for patent or inventor's certificate, or PCT International application having a filing date before that of the application for which priority is claimed.

Priority Not Claimed
優先権主張なし

June 27, 2002

(Day/Month/Year Filed)
(出願日/月/年)

March 11, 2003

(Day/Month/Year Filed)
(出願日/月/年)

I hereby claim the benefit under Title 35, United States Code, Section 119(e) of any United States provisional application(s) listed below.

(Application No.)
(出願番号)

(Filing Date)
(出願日)

(Application No.)
(出願番号)

(Filing Date)
(出願日)

私は、ここに、下記のいかなる米国出願についても、その米国法典第35編第120条に基づく利益を主張し、又米国を指定するいかなるPCT国際出願についても、その同第365条(c)に基づく利益を主張する。また、本出願の各特許請求の範囲の主題が、米国法典第35編第112条第1段に規定された態様で、先行する米国出願又はPCT国際出願に開示されていない場合においては、その先行出願の出願日と本国内出願日またはPCT国際出願日の間の期間中に入手された情報で、連邦規則法典第37編規則1.56に定義された特許性に係わる重要な情報について開示義務があることを承認する。

I hereby claim the benefit under Title 35, United States Code, Section 120 of any United States application(s), or 365(c) of any PCT International application designating the United States, listed below and, insofar as the subject matter of each of the claims of this application is not disclosed in the prior United States or PCT International application in the manner provided by the first paragraph of Title 35, United States Code Section 112, I acknowledge the duty to disclose information which is material to patentability as defined in Title 37, Code of Federal Regulations, Section 1.56 which became available between the filing date of the prior application and the national or PCT International filing date of application.

(Application No.)
(出願番号)

(Filing Date)
(出願日)

(Status: Patented, Pending, Abandoned)
(現況 : 特許許可、係属中、放棄)

(Application No.)
(出願番号)

(Filing Date)
(出願日)

(Status: Patented, Pending, Abandoned)
(現況 : 特許許可、係属中、放棄)

私は、ここに表明された私自身の知識に係わる陳述が真実であり、且つ情報と信ずることに基づく陳述が、真実であると信じられることを宣言し、さらに、故意に虚偽の陳述などを行った場合は、米国法典第18編第1001条に基づき、罰金または拘禁、若しくはその両方により処罰され、またそのような故意による虚偽の陳述は、本出願またはそれに対して発行されるいかなる特許も、その有効性に問題が生ずることを理解した上で陳述が行われたことを、ここに宣言する。

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

Japanese Language Declaration
(日本語宣言書)

委任状: 私は本出願を審査する手続を行い、且つ米国特許商標庁との全ての業務を遂行するために、記名された発明者として、下記の弁護士及び/または弁理士を任命する。(氏名及び登録番号を記載すること)

POWER OF ATTORNEY: As a named inventor, I hereby appoint the following attorney(s) and/or agent(s) to prosecute this application and transact all business in the Patent and Trademark Office connected therewith (list name and registration number).

書類送付先

24978

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PATENT TRADEMARK OFFICE

直通電話連絡先: (氏名及び電話番号)

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(312) 360 0080

唯一または第一発明者氏名	Full name of sole or first inventor Katsuyoshi HIRAKI		
発明者の署名	日付	Inventor's signature	Date
平木克良			Jun. 16, 2003
住所	Residence Kawasaki, Japan		
国籍	Citizenship Japan		
郵便の宛先	Post Office Address c/o FUJITSU DISPLAY TECHNOLOGIES CORPORATION, 1-1,		
	Kamikodanaka 4-chome, Nakahara-ku, Kawasaki-shi, Kanagawa 211-8588 Japan		
第二共同発明者がいる場合、その氏名	Full name of second joint inventor, if any Yasutake FURUKOSHI		
第二共同発明者の署名	日付	Second inventor's signature	Date
平城清武			Jun. 16, 2003
住所	Residence Kawasaki, Japan		
国籍	Citizenship Japan		
郵便の宛先	Post Office Address c/o FUJITSU DISPLAY TECHNOLOGIES CORPORATION, 1-1,		
	Kamikodanaka 4-chome, Nakahara-ku, Kawasaki-shi, Kanagawa 211-8588 Japan		

(第三以下の共同発明者についても同様に記載し、署名をすること)

(Supply similar information and signature for third and subsequent joint inventors.)

第三共同発明者氏名がいる場合、その氏名	Full name of third joint inventor, if any Koichi KATAGAWA		
第三共同発明者の署名	日付	Third Inventor's signature 形一	Date Jun. 16, 2003
住所	Residence Kawasaki, Japan		
国籍	Citizenship Japan		
郵便の宛先	Post Office Address c/o FUJITSU DISPLAY TECHNOLOGIES CORPORATION, 1-1, Kamikodanaka 4-chome, Nakahara-ku, Kawasaki-shi, Kanagawa 211-8588 Japan		
第四共同発明者がいる場合、その氏名	Full name of fourth joint inventor, if any Masanori NISHIDO		
第四共同発明者の署名	日付	Fourth Inventor's signature 西戸 正典	Date Jun. 16, 2003
住所	Residence Kawasaki, Japan		
国籍	Citizenship Japan		
郵便の宛先	Post Office Address c/o FUJITSU DISPLAY TECHNOLOGIES CORPORATION, 1-1, Kamikodanaka 4-chome, Nakahara-ku, Kawasaki-shi, Kanagawa 211-8588 Japan		
第五共同発明者氏名がいる場合、その氏名	Full name of fifth joint inventor, if any Tetsuya KOBAYASHI		
第五共同発明者の署名	日付	Fifth Inventor's signature 小林哲也	Date Jun. 16, 2003
住所	Residence		
国籍	Citizenship		
郵便の宛先	Post Office Address c/o FUJITSU DISPLAY TECHNOLOGIES CORPORATION, 1-1, Kamikodanaka 4-chome, Nakahara-ku, Kawasaki-shi, Kanagawa 211-8588 Japan		
第六共同発明者がいる場合、その氏名	Full name of sixth joint inventor, if any		
第六共同発明者の署名	日付	Sixth Inventor's signature	Date
住所	Residence		
国籍	Citizenship		
郵便の宛先	Post Office Address		